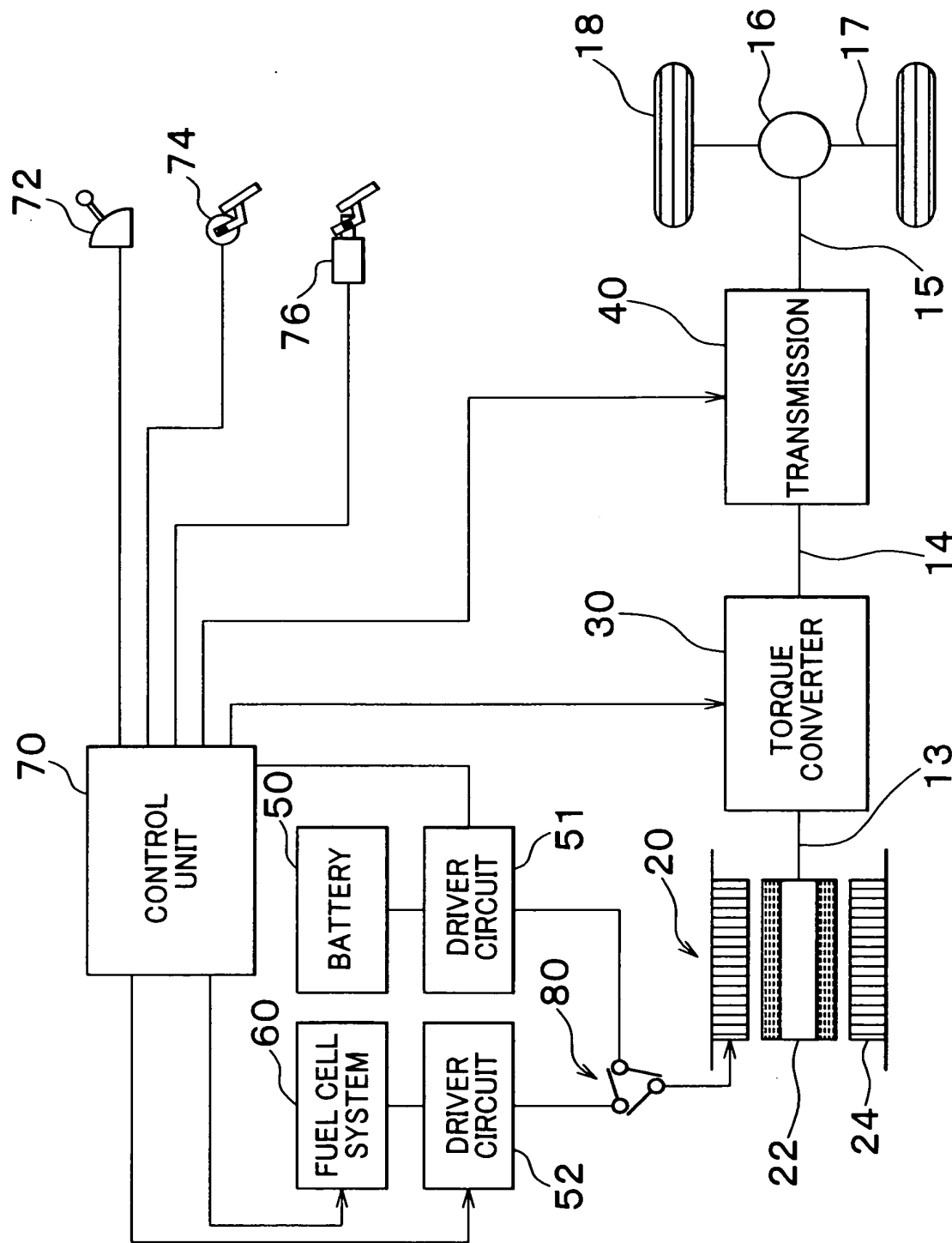


FIG. 1



09/976111
4/16
29 FIGS

FIG. 2A

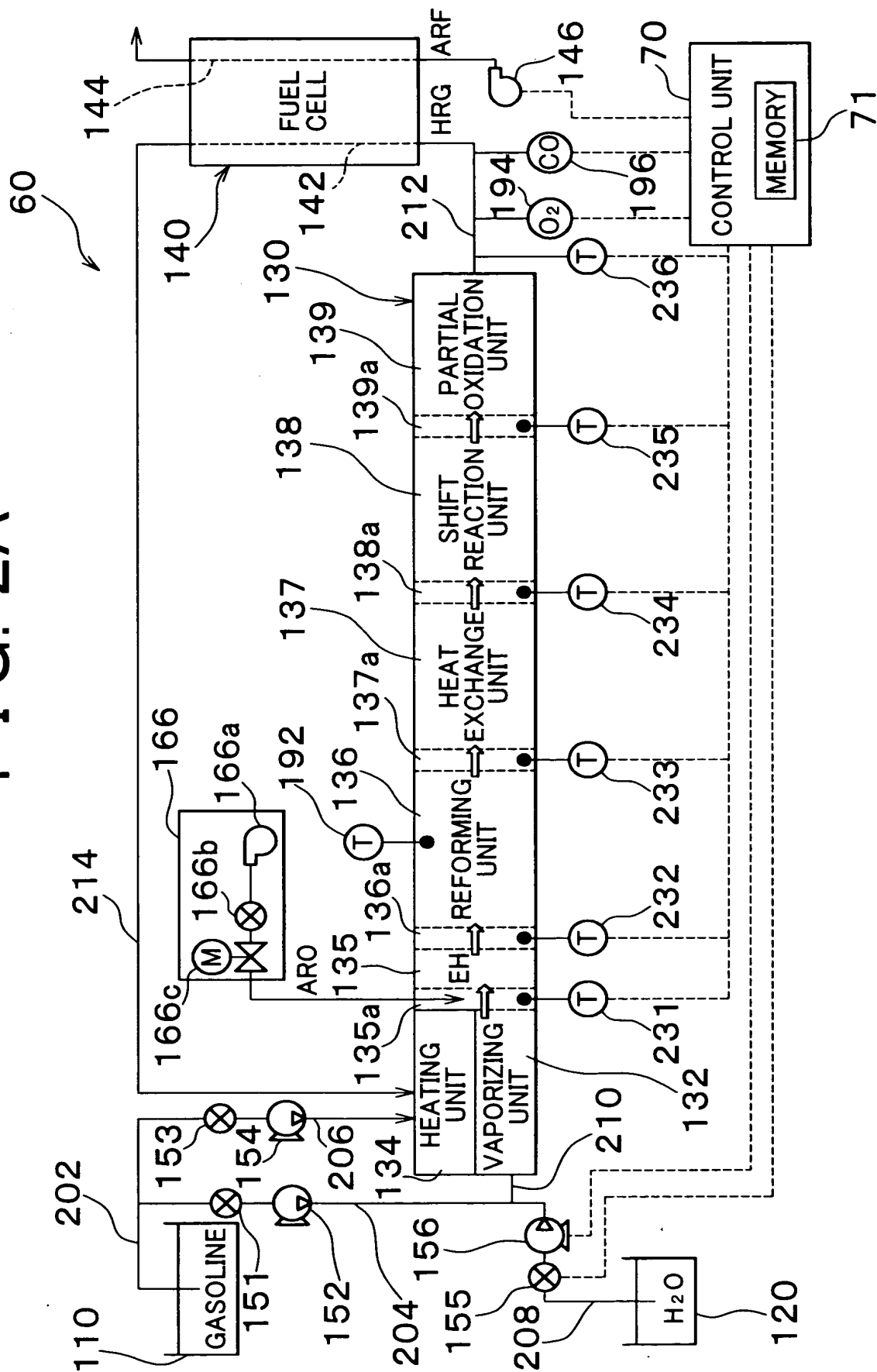
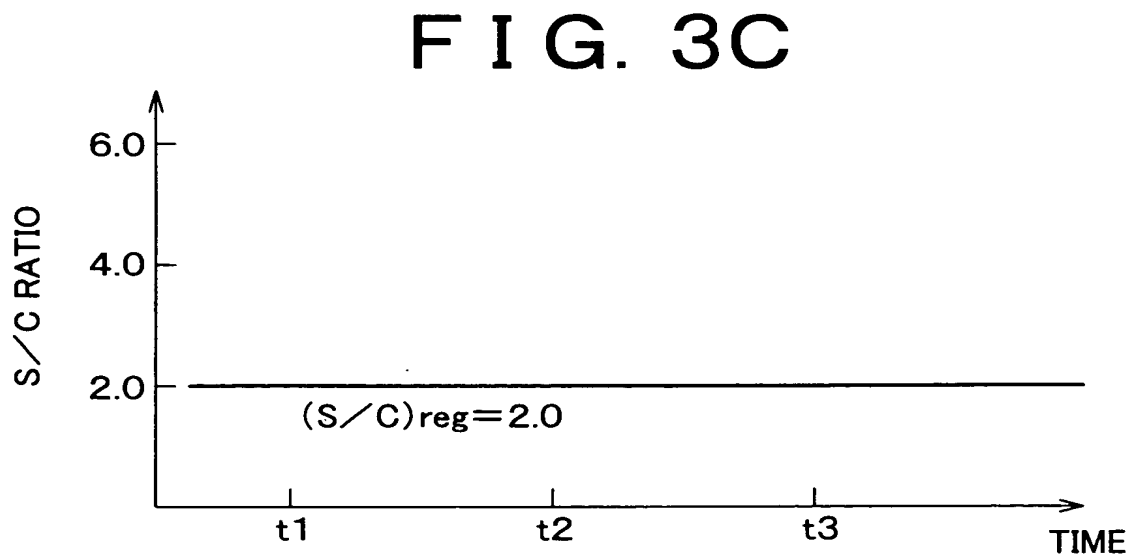
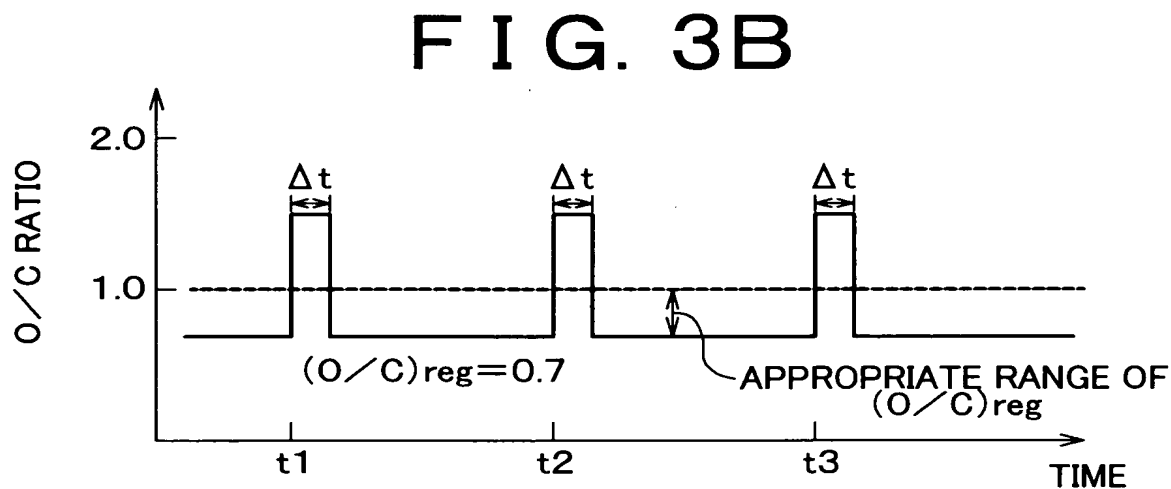
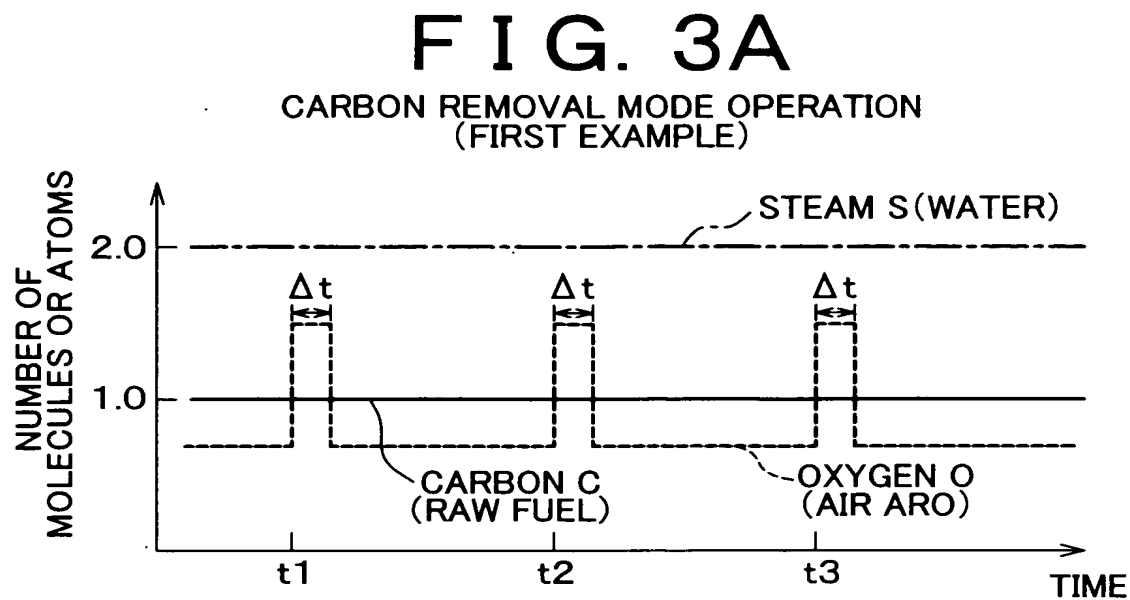


FIG. 3A



0007644-01504
109704-192600

FIG. 4

RELATIONSHIP BETWEEN CARBON
REMOVAL PERIOD Δt AND O/C RATIO

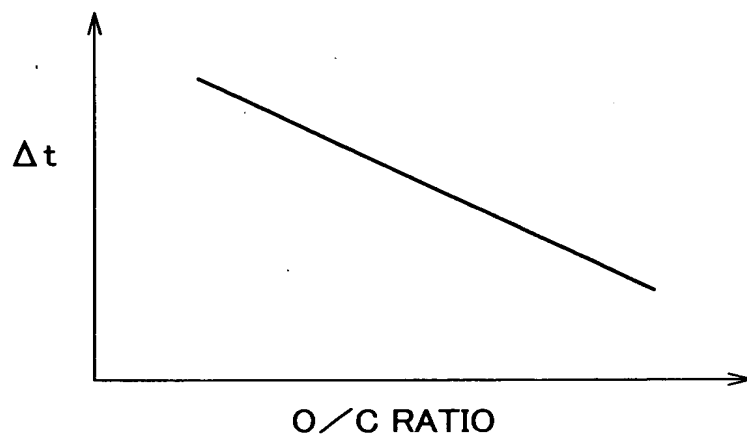


FIG. 5

RELATIONSHIP BETWEEN CATALYST
TEMPERATURE T_{cat} AND O/C RATIO

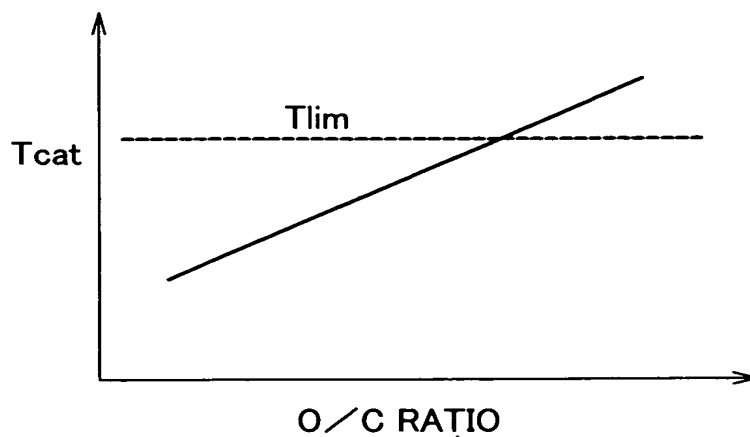


FIG. 6

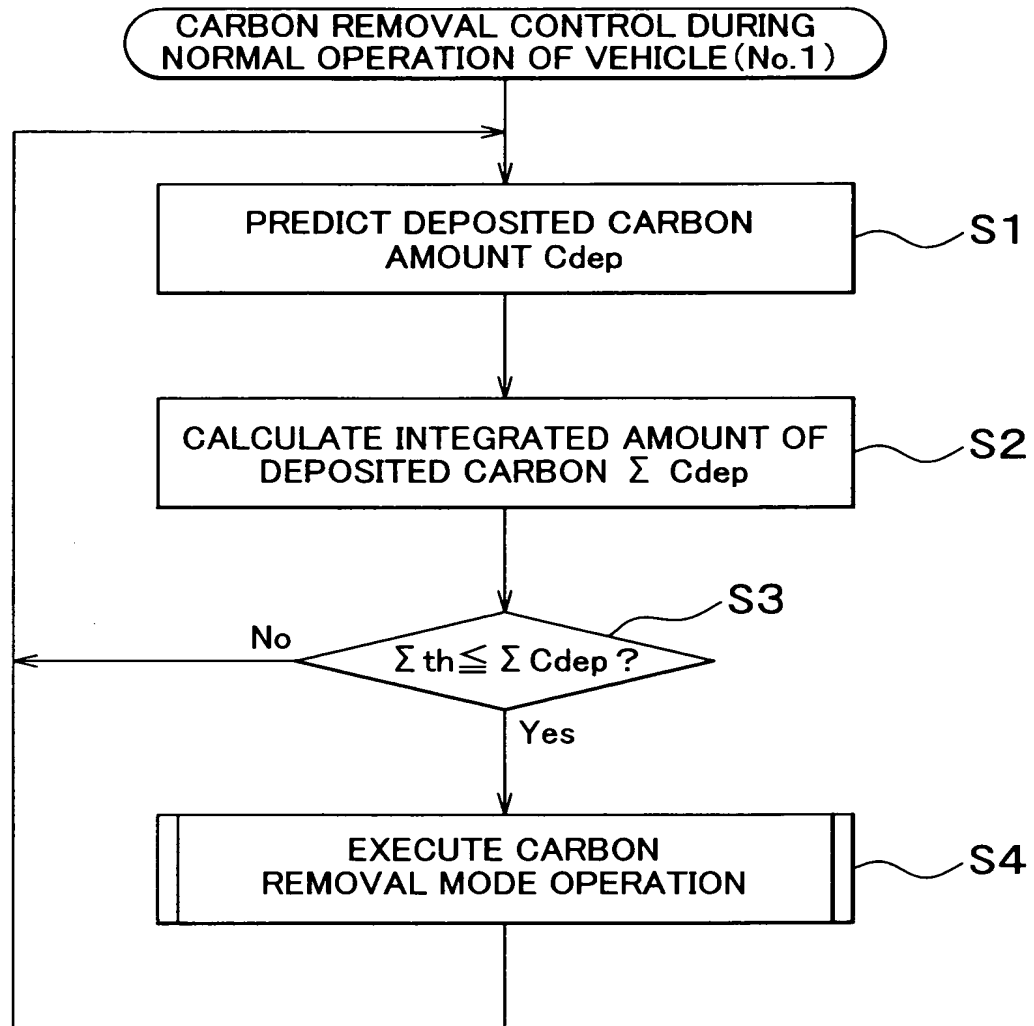
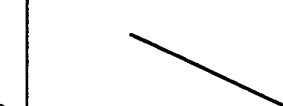
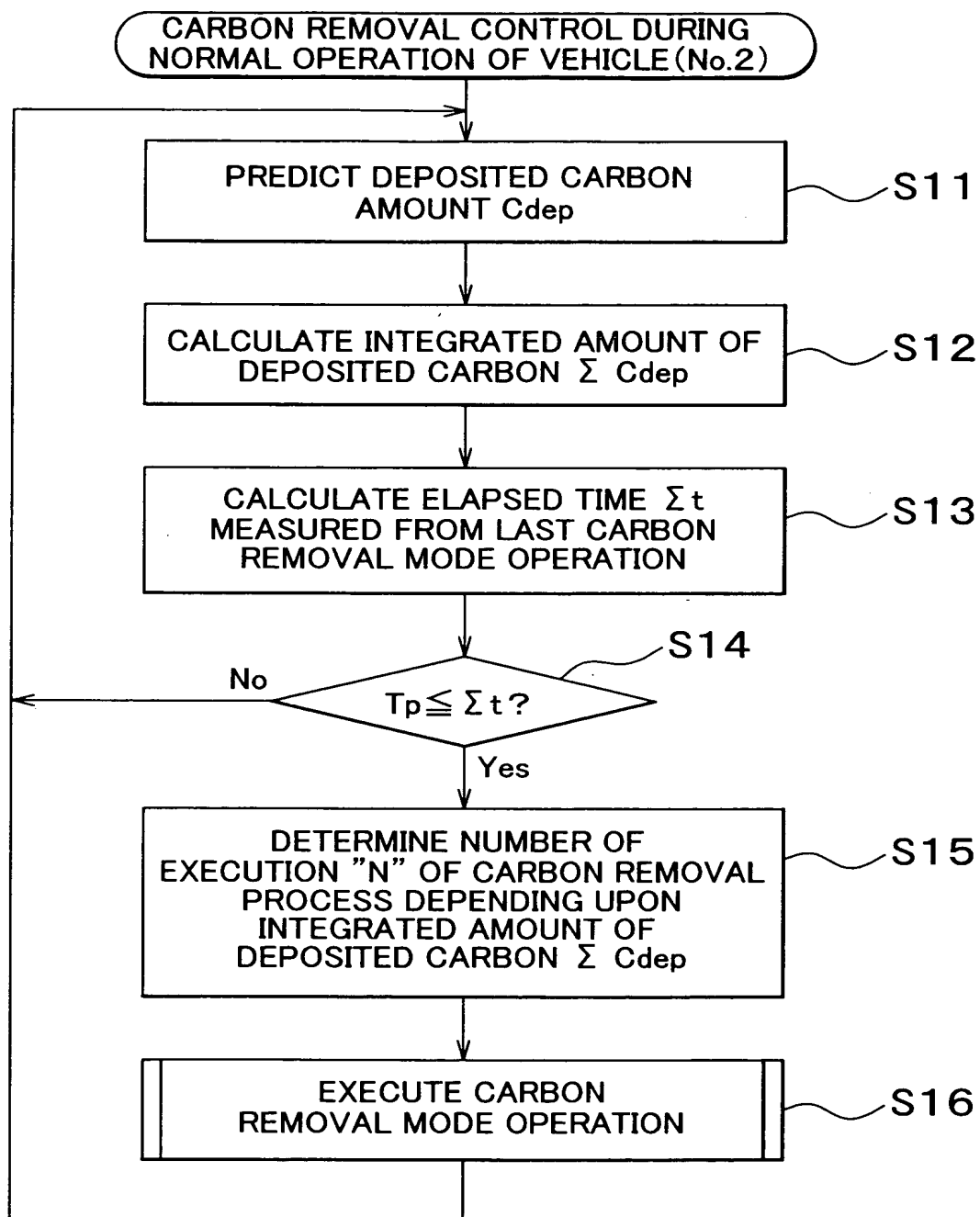


FIG. 7



A graph showing the relationship between C_{dep} (Y-axis) and O/C RATIO (X-axis) for $S/C = 2.0$. The graph shows a linear decrease in C_{dep} as the O/C RATIO increases.

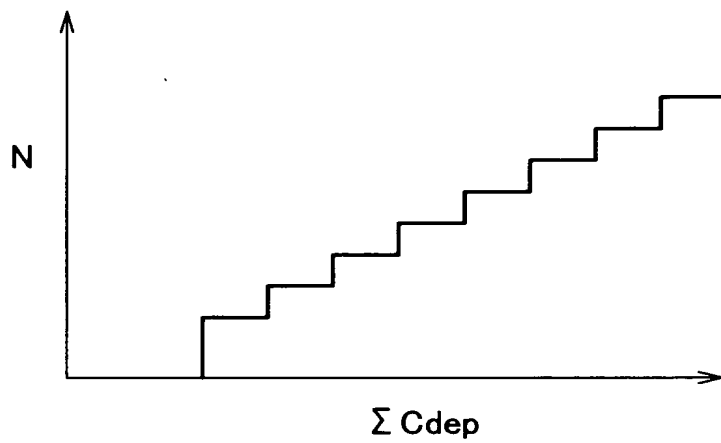
FIG. 9



000161-104501
109707-119400

FIG. 10

INTEGRATED AMOUNT OF DEPOSITED CARBON ΣC_{dep}
AND NUMBER OF EXECUTION "N" OF CARBON REMOVAL PROCESS



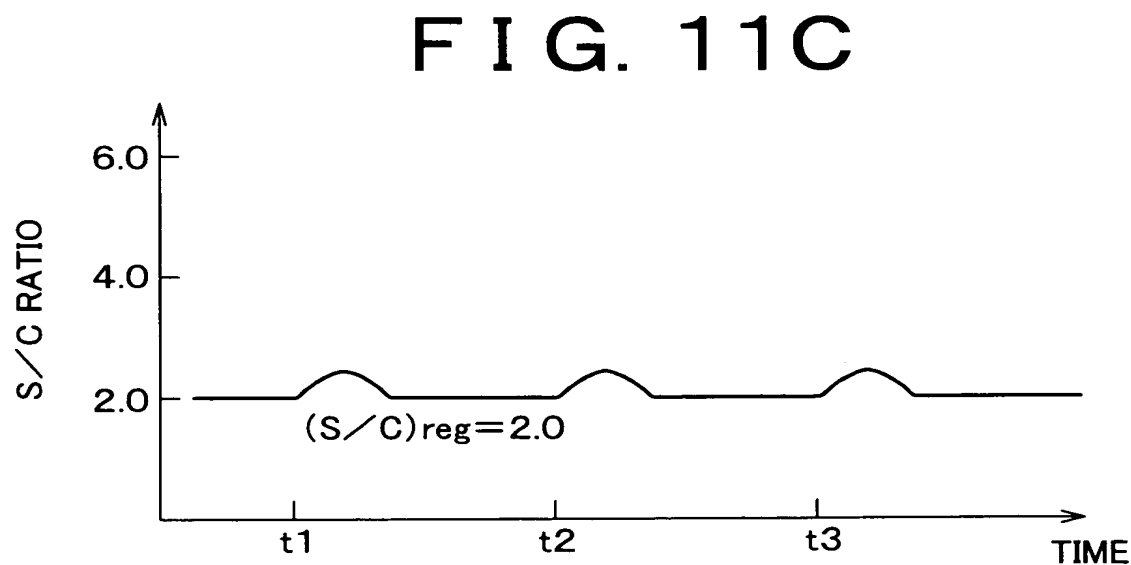
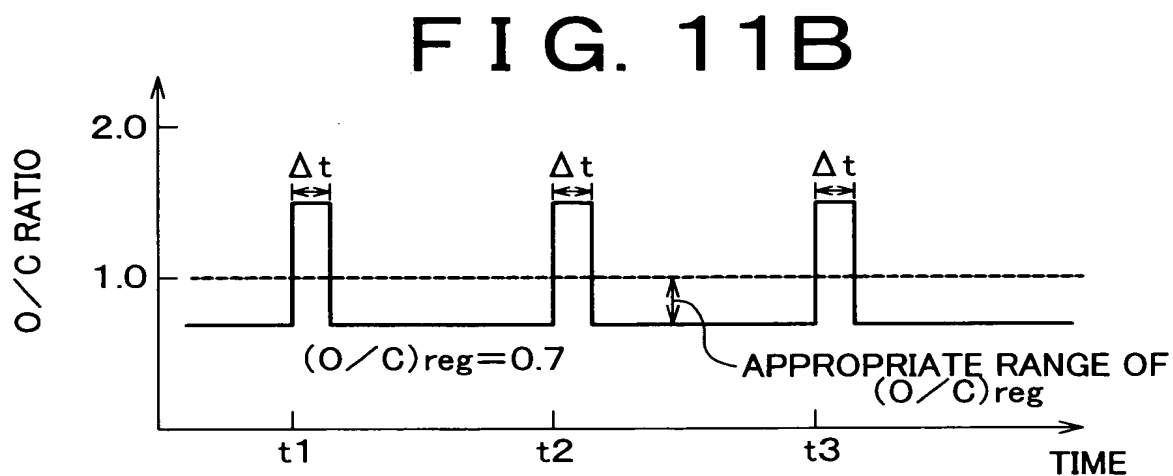
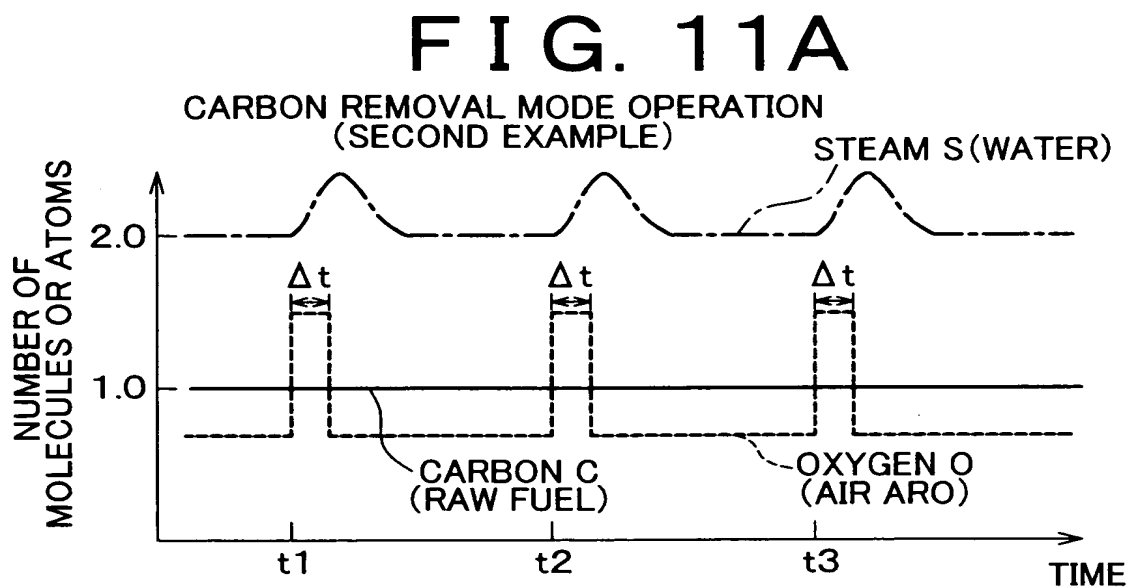


FIG. 12A

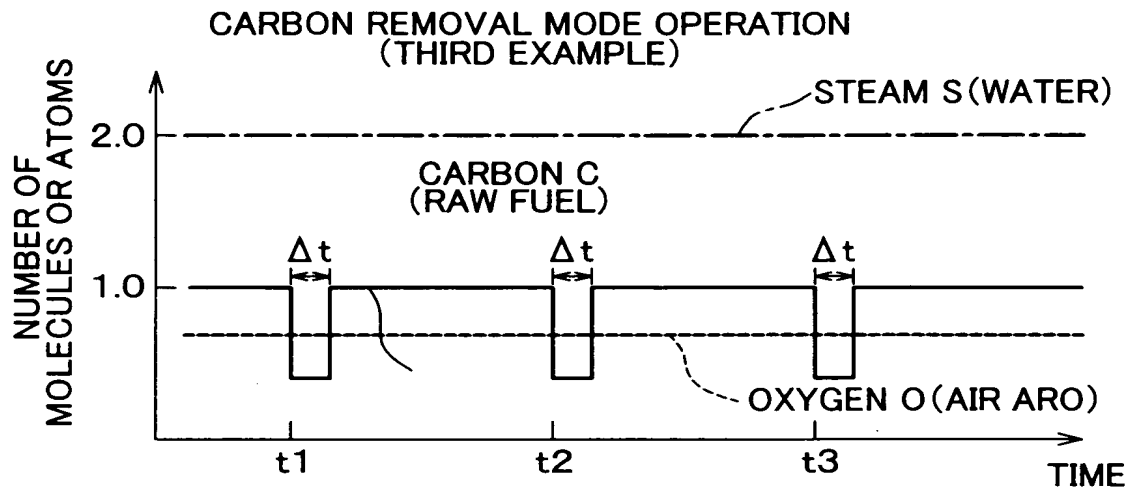


FIG. 12B

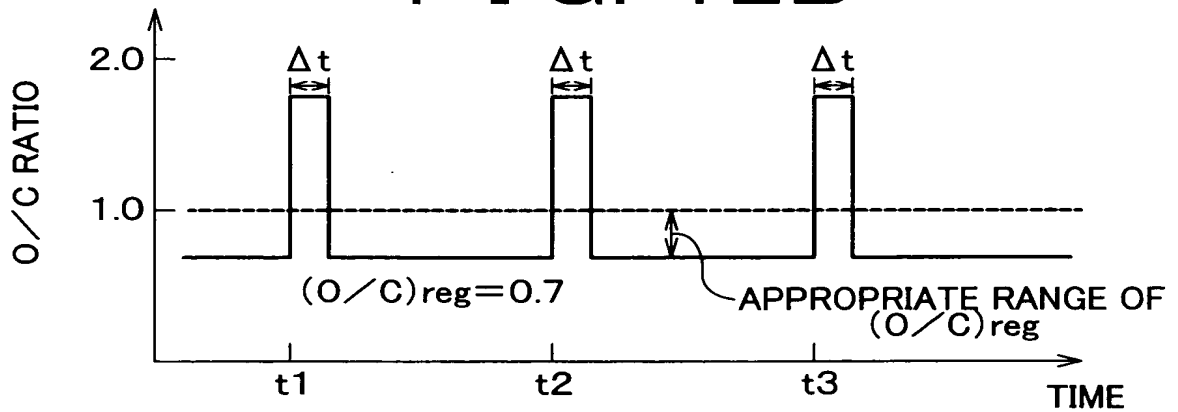


FIG. 12C

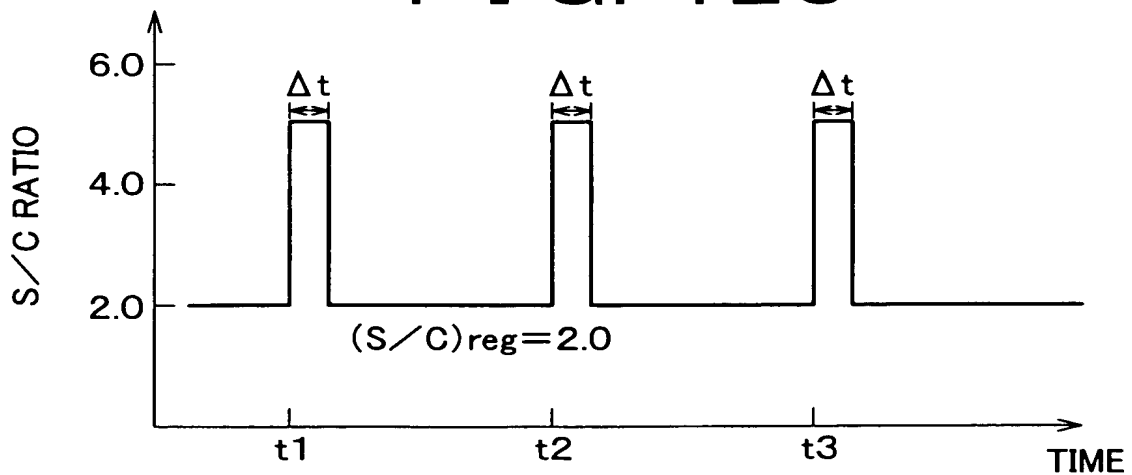


FIG. 13

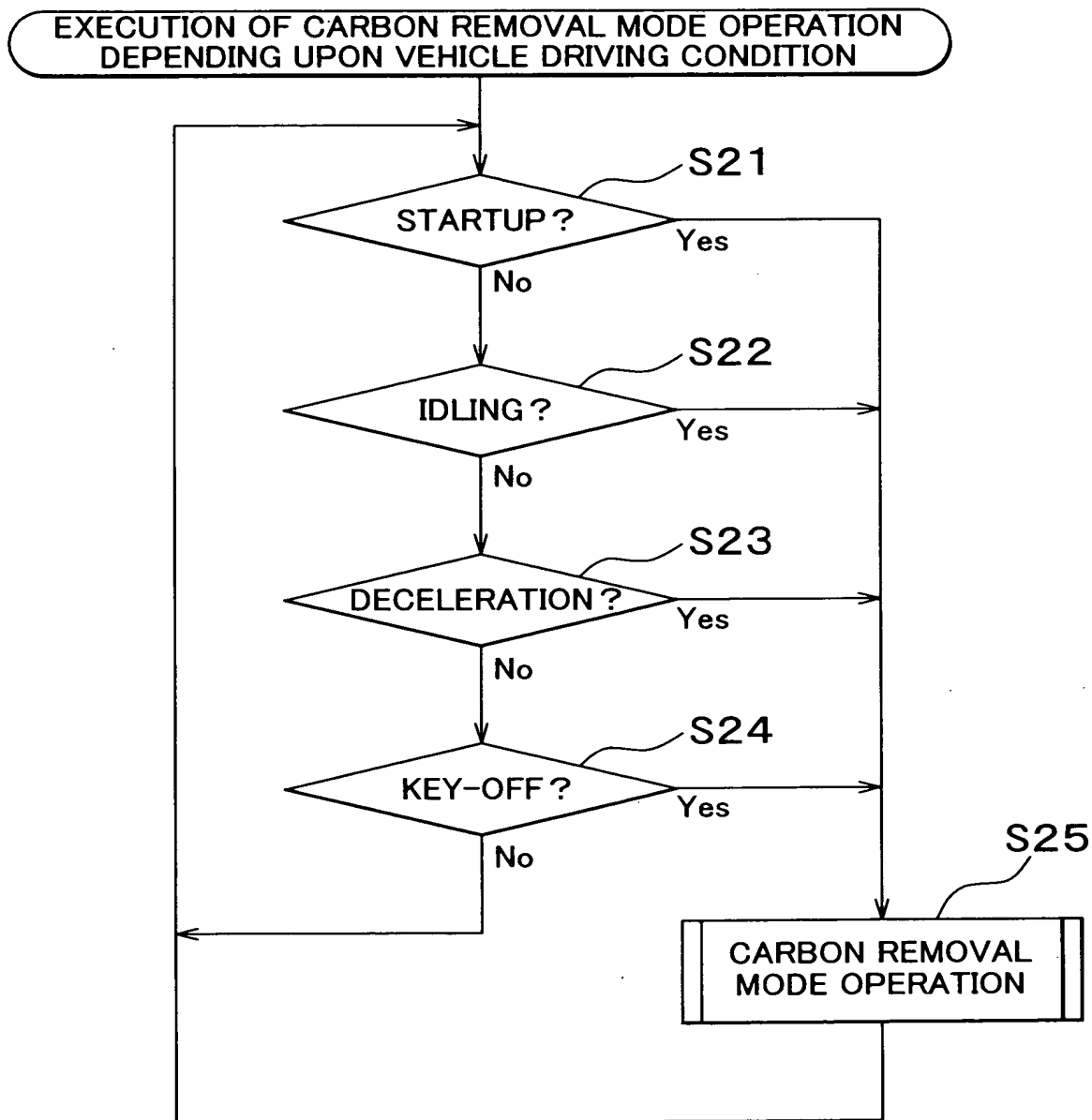


FIG. 14A

CARBON REMOVAL MODE OPERATION FOR
STARTUP CONDITION (FOURTH EXAMPLE)

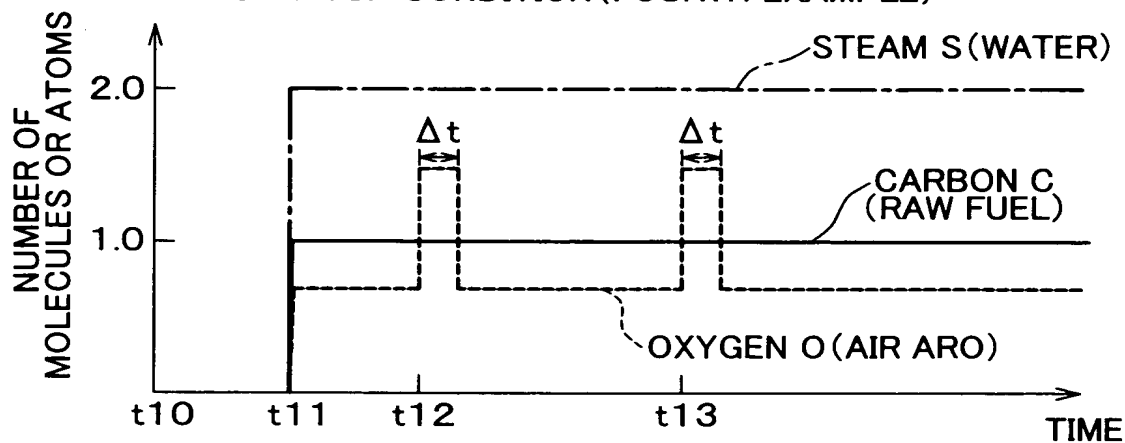


FIG. 14B

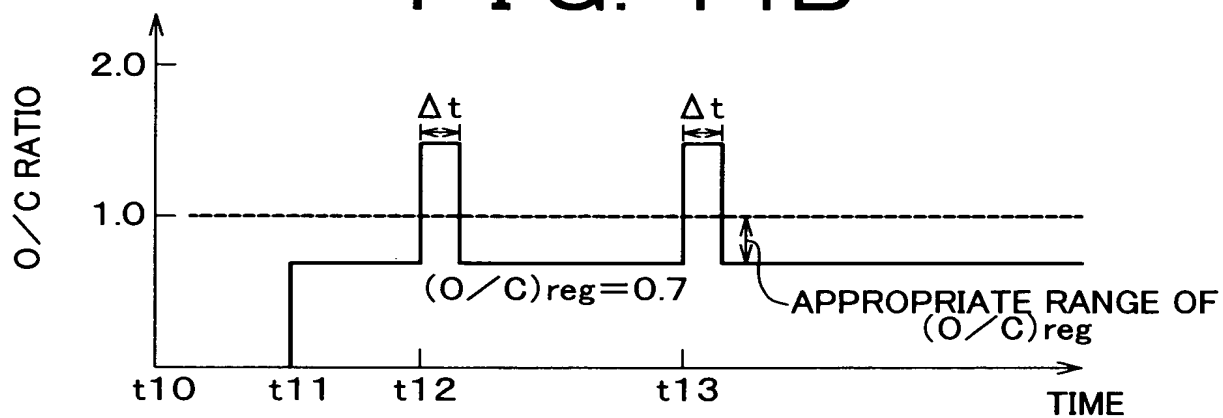


FIG. 14C

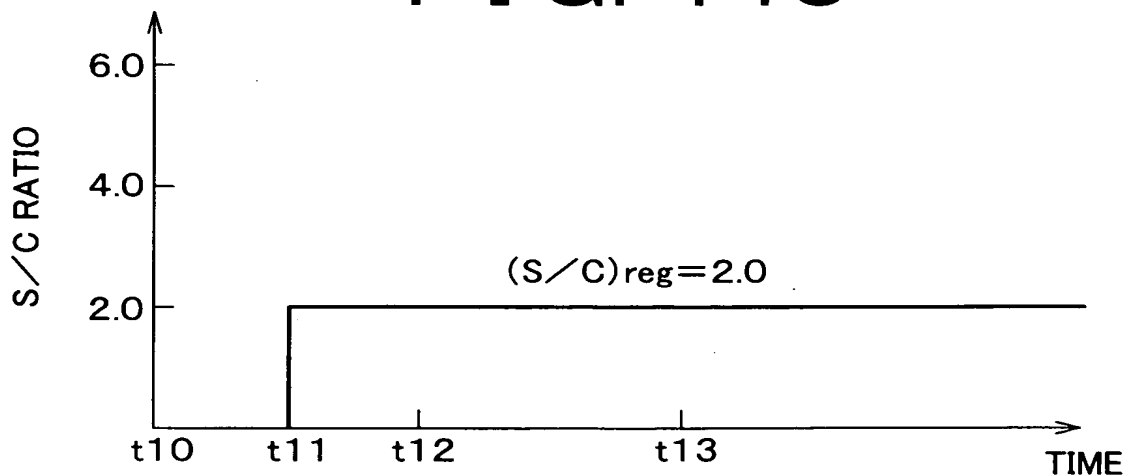


FIG. 15A

CARBON REMOVAL MODE OPERATION FOR
KEY-OFF CONDITION (FOURTH EMBODIMENT)

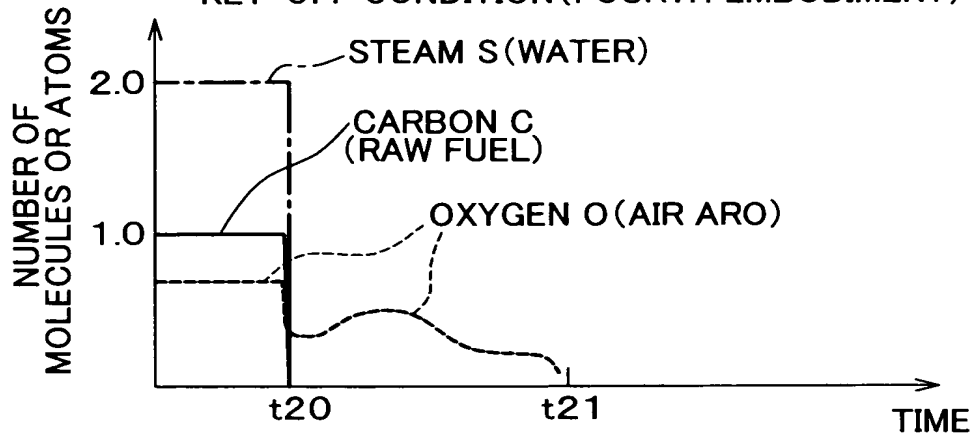


FIG. 15B

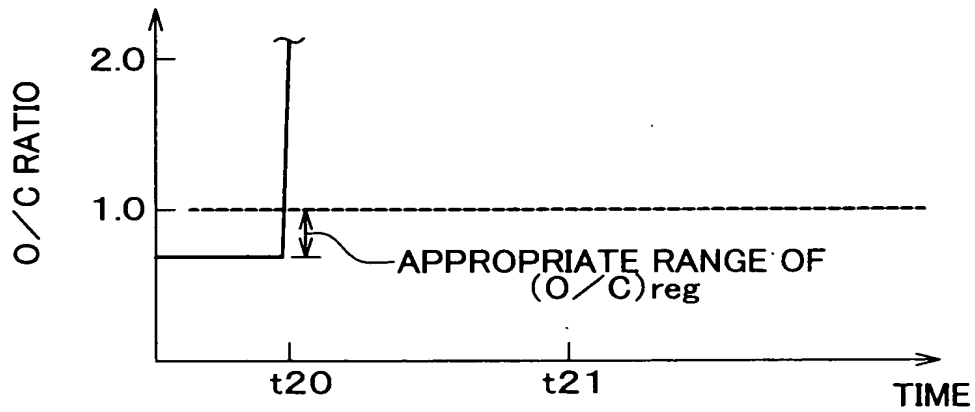


FIG. 15C

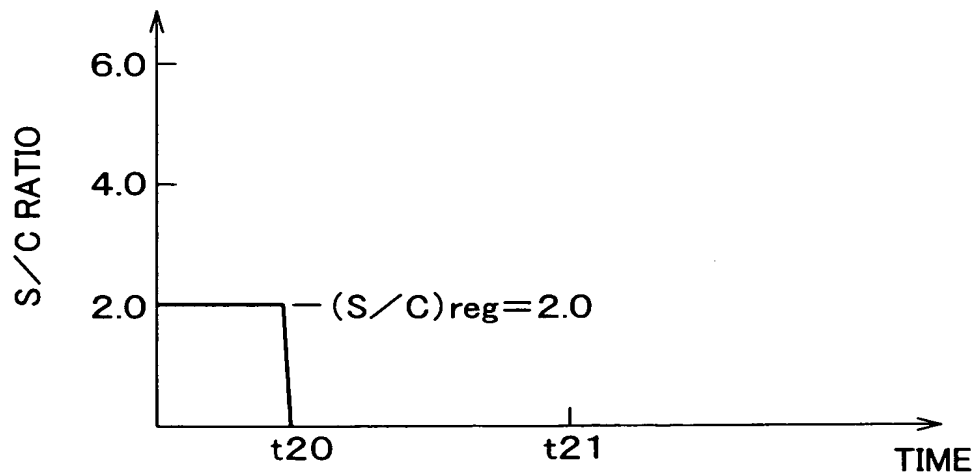


FIG. 16

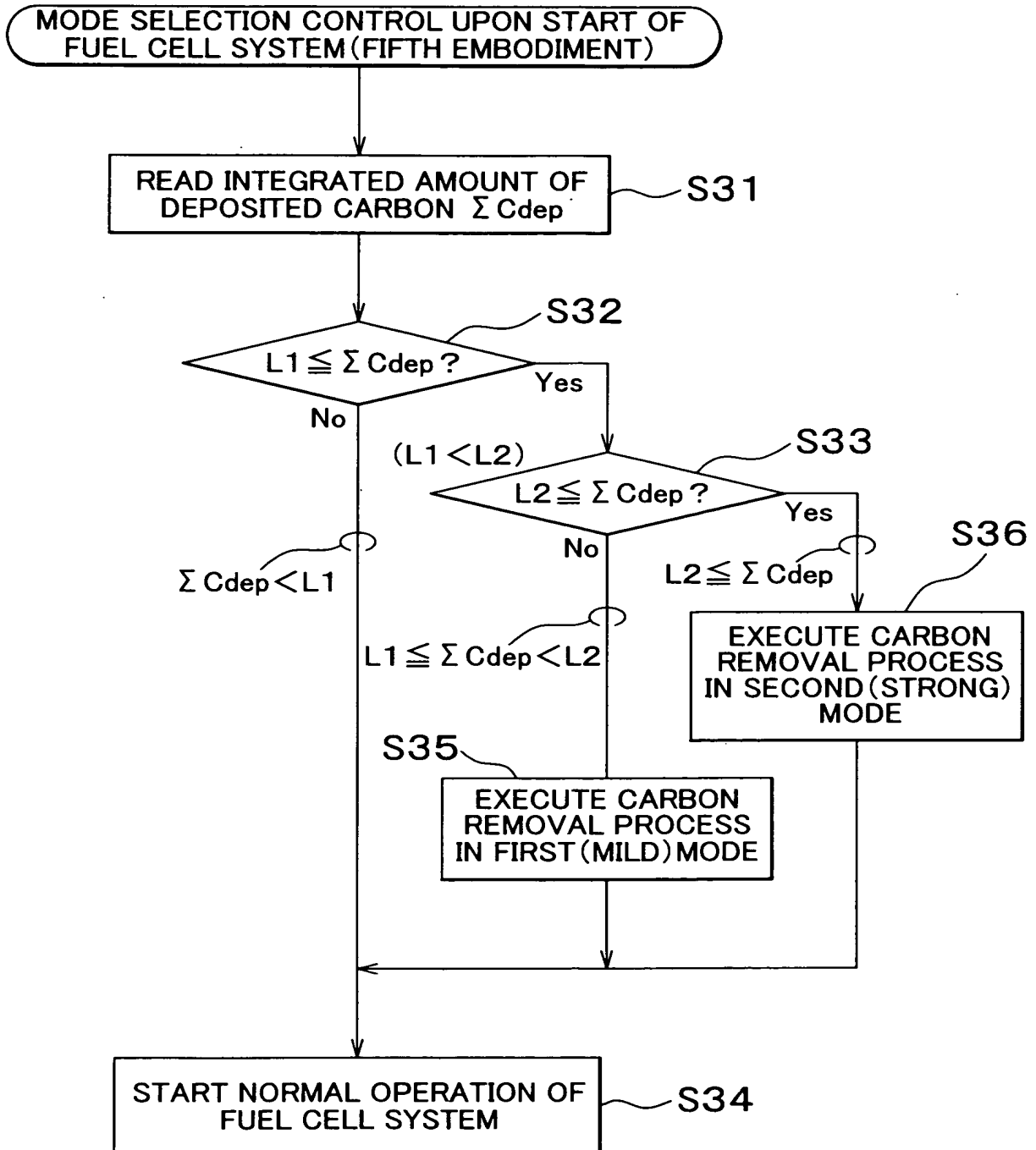


FIG. 17A

FIG. 17A

CARBON REMOVAL PROCESS IN
STRONG MODE (FIFTH METHOD)

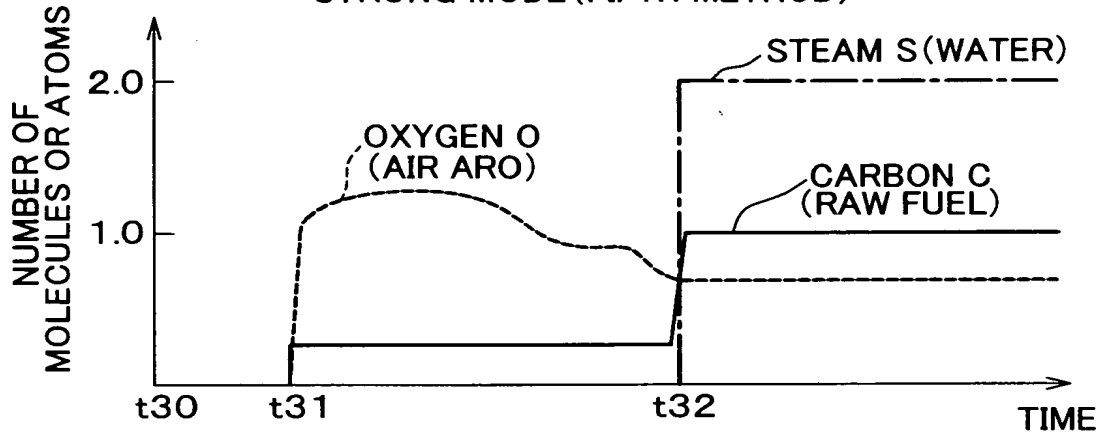


FIG. 17B

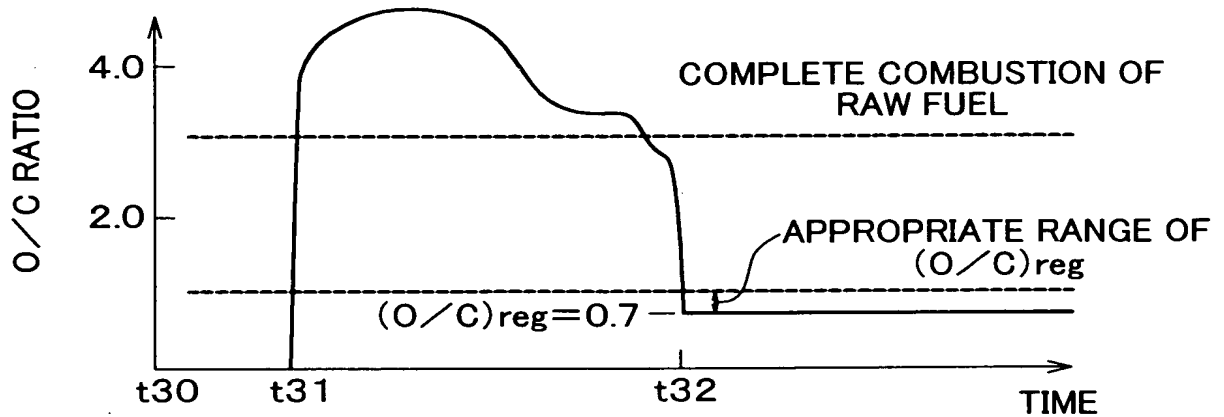


FIG. 17C

$$\lambda = (O/C) \div 3.1$$

